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### Highest 4 Daily Maximum Hourly Ozone Measurements

West Los Angeles-VA Hospital

Year:	2002		2003		2004	
	Date	Measurement	Date	Measurement	Date	Measurement
First High:	Jul 25	0.118	Oct 26	0.134	Sep 7	0.107
Second High:	Oct 6	0.092	Aug 14	0.116	Sep 6	0.103
Third High:	Jun 5	0.091	Oct 27	0.116	May 3	0.099
Fourth High:	Jul 8	0.091	Aug 15	0.112	Sep 11	0.098
# Days Above Nat'l Standard:	0		1		0	
# Days Above State Standard:	1		11		5	
Year Coverage:	98		98		99	

[Go Backward One Year](#)[New Top 4 Summary](#)[Go Forward One Year](#)

**Notes:** All concentrations are expressed in parts per million.

State exceedances are shown in **yellow**. National exceedances are shown in **orange**.

National exceedances are also state exceedances.

An exceedance is not necessarily a violation.

Year Coverage indicates how complete monitoring was during the time of the year when concentrations are highest. 0 means there was no coverage; 100 means there was complete coverage.

Blanks mean that there was insufficient data available to determine the value.

Switch:	8-Hour Ozone	PM10	PM2.5	Carbon Monoxide	Nitrogen Dioxide	Sulfur Dioxide	Hydrogen Sulfide
Go to:	<a href="#">Data Statistics Home Page</a>			<a href="#">Top 4 Summaries Start Page</a>			

[California Home](#)[ARB: Home](#) [Search](#) [Site Map](#) [Links](#) [Software](#) [Contact Us](#) [AQD: Home](#)

Welcome to

**Air Resources Board****Highest 4 Daily Maximum 8-Hour Carbon Monoxide Averages**

West Los Angeles-VA Hospital

Year:	2002		2003		2004	
	Date	Measurement	Date	Measurement	Date	Measurement
<b>National:</b>						
First High:	Feb 7	2.73	Oct 24	2.79	Feb 17	2.33
Second High:	Feb 6	2.44	Jan 31	2.50	Dec 12	1.95
Third High:	Feb 7	2.38	Oct 21	2.46	Jan 9	1.83
Fourth High:	Jan 8	2.38	Oct 28	2.39	Jan 8	1.81
<b>California:</b>						
First High:	Feb 7	2.73	Oct 24	2.79	Feb 17	2.33
Second High:	Feb 6	2.44	Jan 30	2.50	Dec 11	1.95
Third High:	Jan 7	2.38	Oct 21	2.46	Jan 9	1.83
Fourth High:	Feb 5	2.38	Oct 27	2.39	Jan 8	1.81
# Days Above Nat'l Standard:	0		0		0	
# Days Above State Standard:	0		0		0	
Year Coverage:	95		97		96	
	<a href="#">Go Backward One Year</a>		<a href="#">New Top 4 Summary</a>		<a href="#">Go Forward One Year</a>	

Notes: All averages are expressed in parts per million.

State exceedances are shown in **yellow**. National exceedances are shown in **orange**.

An exceedance is not necessarily a violation.

Year Coverage indicates how complete monitoring was during the time of the year when concentrations are highest. 0 means there was no coverage; 100 means there was complete coverage.

Blanks mean that there was insufficient data available to determine the value.

Switch:	Hourly Ozone	8-Hour Ozone	PM10	PM2.5	Nitrogen Dioxide	Sulfur Dioxide	Hydrogen Sulfide
Go to:	<a href="#">Data Statistics Home Page</a>			<a href="#">Top 4 Summaries Start Page</a>			

[California Home](#)[ARB: Home](#) [Search](#) [Site Map](#) [Links](#) [Software](#) [Contact Us](#) [AQD: Home](#)

Welcome to



Air Resources Board

**Highest 4 Daily Maximum Hourly Nitrogen Dioxide Measurements**

West Los Angeles-VA Hospital

Year:	2002		2003		2004	
	Date	Measurement	Date	Measurement	Date	Measurement
First High:	Feb 7	0.113	Oct 28	0.119	Sep 23	0.086
Second High:	Oct 7	0.100	Oct 27	0.099	Sep 24	0.086
Third High:	Feb 5	0.090	Oct 26	0.091	Apr 25	0.082
Fourth High:	Jan 13	0.089	Oct 21	0.087	Sep 8	0.082
# Days Above State Standard:	0		0		0	
Annual Average:	0.024		0.023		0.020	
Year Coverage:	97		97		97	
	<a href="#">Go Backward One Year</a>		<a href="#">New Top 4 Summary</a>		<a href="#">Go Forward One Year</a>	

Notes: All concentrations are expressed in parts per million.

State exceedances are shown in **yellow**. National exceedances are shown in **orange**.

An exceedance is not necessarily a violation.

Year Coverage indicates how complete monitoring was during the time of the year when concentrations are highest. 0 means there was no coverage; 100 means there was complete coverage.

Blanks mean that there was insufficient data available to determine the value.

Switch:	Hourly Ozone	8-Hour Ozone	PM10	PM2.5	Carbon Monoxide	Sulfur Dioxide	Hydrogen Sulfide
Go to:		<a href="#">Data Statistics Home Page</a>			<a href="#">Top 4 Summaries Start Page</a>		

[California Home](#)[ARB: Home](#) [Search](#) [Site Map](#) [Links](#) [Software](#) [Contact Us](#) [AQD: Home](#)

Welcome to

**Highest 4 Daily PM10 Measurements**

Hawthorne

Year:	2002		2003		2004	
	Date	Measurement	Date	Measurement	Date	Measurement
<b>National:</b>						
First High:	Sep 5	121.0	Oct 24	58.0	Mar 16	52.0
Second High:	Jul 19	97.0	Feb 2	57.0	Mar 22	51.0
Third High:	Feb 13	58.0	Oct 6	55.0	Mar 28	42.0
Fourth High:	Jun 19	58.0	Mar 28	50.0	Mar 10	40.0
<b>California:</b>						
First High:	Sep 5	121.0	Oct 24	58.0	Mar 16	52.0
Second High:	Jul 19	97.0	Feb 2	57.0	Mar 22	51.0
Third High:	Feb 13	58.0	Oct 6	54.0	Mar 28	42.0
Fourth High:	Jun 19	57.0	Mar 28	50.0	Mar 10	40.0
<b>Measured:</b>						
# Days Above Nat'l Standard:		0		0		0
# Days Above State Standard:		12		3		2
<b>Estimated:</b>						
3-Yr Avg # Days Above Nat'l Std:		0.0		0.0		
# Days Above Nat'l Standard:		0.0		0.0		
# Days Above State Standard:		71.0		18.3		
National 3-Year Average:		37		35		
National Annual Average:		37.3		29.8		
State 3-Yr Maximum Average:		37		37		37
State Annual Average:		37.2		29.6		
Year Coverage:		100		100		33
<a href="#">Go Backward One Year</a>		<a href="#">New Top 4 Summary</a>		<a href="#">Go Forward One Year</a>		

Notes: All concentrations are expressed in micrograms per cubic meter.

State exceedances are shown in **yellow**. National exceedances are shown in **orange**.

An exceedance is not necessarily a violation.

State and national statistics may differ for the following reasons:

State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods.

State and national statistics may therefore be based on different samplers.

State statistics for 1998 and later are based on *local* conditions (except for sites in the South Coast Air Basin, where State statistics for 2002 and later are based on *local* conditions).National statistics are based on *standard* conditions.

State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria.

Measurements are usually collected every six days. Measured days counts the days that a measurement was greater than the level of the standard; Estimated days mathematically estimates how many days concentrations would have been greater than the level of the standard had each day been monitored.

3-Year statistics represent the listed year and the 2 years before the listed year.

Year Coverage indicates how complete monitoring was during the time of the year when concentrations are highest. 0 means there was no coverage; 100 means there was complete coverage.

Blanks mean that there was insufficient data available to determine the value.

Switch:	Hourly Ozone	8-Hour Ozone	PM2.5	Carbon Monoxide	Nitrogen Dioxide	Sulfur Dioxide	Hydrogen Sulfide
Go to:							

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### Highest 4 Maximum 24-Hour Sulfur Dioxide Averages

Hawthorne

Year:	2002		2003		2004	
	Date	Measurement	Date	Measurement	Date	Measurement
First High:	Jul 23	0.007	Dec 3	0.004	Feb 11	0.004
Second High:	Jan 7	0.007	Sep 6	0.004	Jan 7	0.004
Third High:	Jan 10	0.006	Sep 5	0.004	Mar 11	0.003
Fourth High:	Jan 5	0.005	Jul 2	0.004	Mar 9	0.003
# Days Above Nat'l Standard:	0		0		0	
# Days Above State Standard:	0		0		0	
Annual Average:	0.001		0.001		0.001	
Year Coverage:	90		98		15	
	<a href="#">Go Backward One Year</a>		<a href="#">New Top 4 Summary</a>		<a href="#">Go Forward One Year</a>	

Notes: All averages are expressed in parts per million.

State exceedances are shown in **yellow**. National exceedances are shown in **orange**.

National exceedances are also state exceedances.

An exceedance is not necessarily a violation.

Year Coverage indicates how complete monitoring was during the time of the year when concentrations are highest. 0 means there was no coverage; 100 means there was complete coverage.

Blanks mean that there was insufficient data available to determine the value.

Switch:	Hourly Ozone	8-Hour Ozone	PM10	PM2.5	Carbon Monoxide	Nitrogen Dioxide	Hydrogen Sulfide
Go to:	<a href="#">Data Statistics Home Page</a>			<a href="#">Top 4 Summaries Start Page</a>			

## URBEMIS 2002 For Windows 7.5.0

File Name: J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\Parking Lot.urb  
 Project Name: Malibu Lagoon- Parking Lot  
 Project Location: South Coast Air Basin (Los Angeles area)  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Pounds/Day - Summer)

## CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006 ***							
TOTALS (lbs/day, unmitigated)	3.64	22.04	31.36	0.10	5.39	0.81	4.58
TOTALS (lbs/day, mitigated)	3.64	22.04	31.36	0.10	2.73	0.81	1.92
					PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (lbs/day, unmitigated)	3.64	21.55	31.35	0.00	5.28	0.70	4.58
TOTALS (lbs/day, mitigated)	3.64	21.55	31.35	0.00	2.46	0.70	1.76

## URBEMIS 2002 For Windows 7.5.0

J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\Parking Lot.urb  
 File Name: J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\Parking Lot.urb  
 Project Name: Malibu Lagoon- Parking Lot  
 Project Location: South Coast Air Basin (Los Angeles area)  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Pounds/Day - Winter)

## CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006 ***							
TOTALS (lbs/day, unmitigated)	3.64	22.04	31.36	0.10	5.39	0.81	4.58
TOTALS (lbs/day, mitigated)	3.64	22.04	31.36	0.10	2.73	0.81	1.92
					PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (lbs/day, unmitigated)	3.64	21.55	31.35	0.00	5.28	0.70	4.58
TOTALS (lbs/day, mitigated)	3.64	21.55	31.35	0.00	2.46	0.70	1.76

## URBEMIS 2002 For Windows 7.5.0

J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\Parking Lot.urb  
 File Name: J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\Parking Lot.urb  
 Project Name: Malibu Lagoon- Parking Lot  
 Project Location: South Coast Air Basin (Los Angeles area)  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Tons/Year)

## CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006 ***							
TOTALS (tpy, unmitigated)	0.07	0.48	0.60	0.00	0.10	0.01	0.09
TOTALS (tpy, mitigated)	0.07	0.48	0.60	0.00	0.05	0.01	0.04
					PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (tpy, unmitigated)	0.03	0.22	0.28	0.00	0.03	0.00	0.03
TOTALS (tpy, mitigated)	0.03	0.22	0.28	0.00	0.01	0.00	0.01

## URBEMIS 2002 For Windows 7.5.0

File Name: J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\Parking Lot.urb  
 Project Name: Malibu Lagoon- Parking Lot  
 Project Location: South Coast Air Basin (Los Angeles area)  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

**DETAIL REPORT**  
 (Pounds/Day - Winter)

Construction Start Month and Year: November, 2006

Construction Duration: 3

Total Land Use Area to be Developed: 1.03 acres

Maximum Acreage Disturbed Per Day: 1.03 acres

Single Family Units: 0 Multi-Family Units: 0

Retail/Office/Institutional/Industrial Square Footage: 0

**CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)**

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
<b>*** 2006***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	1.89	-	1.89
Off-Road Diesel	1.73	13.82	12.30	-	0.64	0.64	0.00
On-Road Diesel	0.32	7.17	1.19	0.10	0.17	0.14	0.03
Worker Trips	0.02	0.06	0.59	0.00	0.00	0.00	0.00
Maximum lbs/day	2.07	21.05	14.08	0.10	2.70	0.78	1.92
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	4.58	-	4.58
Off-Road Diesel	3.60	21.97	30.62	-	0.81	0.81	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.04	0.07	0.74	0.00	0.00	0.00	0.00
Maximum lbs/day	3.64	22.04	31.36	0.00	5.39	0.81	4.58
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	3.64	22.04	31.36	0.10	5.39	0.81	4.58
<b>*** 2007***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	4.58	-	4.58
Off-Road Diesel	3.60	21.48	30.62	-	0.70	0.70	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.04	0.07	0.73	0.00	0.00	0.00	0.00
Maximum lbs/day	3.64	21.55	31.35	0.00	5.28	0.70	4.58
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.25	-	-	-	-	-	-
Asphalt Off-Road Diesel	2.41	16.06	19.34	-	0.61	0.61	0.00
Asphalt On-Road Diesel	0.05	0.99	0.19	0.00	0.02	0.02	0.00
Asphalt Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00
Maximum lbs/day	2.72	17.06	19.67	0.00	0.64	0.64	0.00
Max lbs/day all phases	3.64	21.55	31.35	0.00	5.28	0.70	4.58

## Phase 1 ~ Demolition Assumptions

Start Month/Year for Phase 1: Nov '06

Phase 1 Duration: 0.5 months

Building Volume Total (cubic feet): 45054.3076

Building Volume Daily (cubic feet): 4505.0944

On-Road Truck Travel (VMT): 249

## Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

## Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Nov '06

Phase 2 Duration: 2.0 months

On-Road Truck Travel (VMT): 0

## Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0

### Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jan '07

Phase 3 Duration: 0.5 months

SubPhase Building Turned OFF

SubPhase Architectural Coatings Turned OFF

Start Month/Year for SubPhase Asphalt: Jan '07

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 1.03

## OFF-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
<b>Phase 1 - Demolition Emissions</b>							
Fugitive Dust	-	-	-	-	1.89	-	1.89
Off-Road Diesel	1.73	13.82	12.30	-	0.64	0.64	0.00
On-Road Diesel	0.32	7.17	1.19	0.10	0.17	0.14	0.03
Worker Trips	0.02	0.06	0.59	0.00	0.00	0.00	0.00
Maximum lbs/day	2.07	21.05	14.08	0.10	2.70	0.78	1.92
<b>Phase 2 - Site Grading Emissions</b>							
Fugitive Dust	-	-	-	-	1.76	-	1.76
Off-Road Diesel	3.60	21.97	30.62	-	0.81	0.81	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.04	0.07	0.74	0.00	0.00	0.00	0.00
Maximum lbs/day	3.64	22.04	31.36	0.00	2.57	0.81	1.76
<b>Phase 3 - Building Construction</b>							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	3.64	22.04	31.36	0.10	2.73	0.81	1.92

\*\*\* 2007 \*\*\*

### Phase 1 - Demolition Emissions

## Phase 2 - Site Grading Emissions

Fugitive Dust - - - 1.76 - 1.76  
Off-Road Diesel 3.60 21.48 30.62 - 0.70 0.70 0.00  
On-Road Diesel 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Worker Trips	0.04	0.07	0.73	0.00	0.00	0.00	0.00
Maximum lbs/day	3.64	21.55	31.35	0.00	2.46	0.70	1.76
<b>Phase 3 - Building Construction</b>							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.25	-	-	-	-	-	-
Asphalt Off-Road Diesel	2.41	16.06	19.34	-	0.61	0.61	0.00
Asphalt On-Road Diesel	0.05	0.99	0.19	0.00	0.02	0.02	0.00
Asphalt Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00
Maximum lbs/day	2.72	17.06	19.67	0.00	0.64	0.64	0.00
Max lbs/day all phases	3.64	21.55	31.35	0.00	2.46	0.70	1.76

**Construction-Related Mitigation Measures**

Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)

Phase 2: Unpaved Roads: Water all haul roads 2x daily  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 3.0%)

Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)

**Phase 1 - Demolition Assumptions**

Start Month/Year for Phase 1: Nov '06

Phase 1 Duration: 0.5 months

Building Volume Total (cubic feet): 45054.3076

Building Volume Daily (cubic feet): 4505.0944

On-Road Truck Travel (VMT): 249

**Off-Road Equipment**

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

**Phase 2 - Site Grading Assumptions**

Start Month/Year for Phase 2: Nov '06

Phase 2 Duration: 2.0 months

On-Road Truck Travel (VMT): 0

**Off-Road Equipment**

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0

**Phase 3 - Building Construction Assumptions**

Start Month/Year for Phase 3: Jan '07

Phase 3 Duration: 0.5 months

SubPhase Building Turned OFF

SubPhase Architectural Coatings Turned OFF

Start Month/Year for SubPhase Asphalt: Jan '07

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 1.03

**Off-Road Equipment**

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0

## URBEMIS 2002 For Windows 7.5.0

File Name: J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\Parking Lot.ur  
 Project Name: Malibu Lagoon- Parking Lot  
 Project Location: South Coast Air Basin (Los Angeles area)  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

**DETAIL REPORT**  
 (Pounds/Day - Summer)

Construction Start Month and Year: November, 2006

Construction Duration: 3

Total Land Use Area to be Developed: 1.03 acres

Maximum Acreage Disturbed Per Day: 1.03 acres

Single Family Units: 0 Multi-Family Units: 0

Retail/Office/Institutional/Industrial Square Footage: 0

## CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
<b>*** 2006***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	1.89	-	1.89
Off-Road Diesel	1.73	13.82	12.30	-	0.64	0.64	0.00
On-Road Diesel	0.32	7.17	1.19	0.10	0.17	0.14	0.03
Worker Trips	0.02	0.06	0.59	0.00	0.00	0.00	0.00
Maximum lbs/day	2.07	21.05	14.08	0.10	2.70	0.78	1.92
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	4.58	-	4.58
Off-Road Diesel	3.60	21.97	30.62	-	0.81	0.81	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.04	0.07	0.74	0.00	0.00	0.00	0.00
Maximum lbs/day	3.64	22.04	31.36	0.00	5.39	0.81	4.58
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	3.64	22.04	31.36	0.10	5.39	0.81	4.58
<b>*** 2007***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	4.58	-	4.58
Off-Road Diesel	3.60	21.48	30.62	-	0.70	0.70	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.04	0.07	0.73	0.00	0.00	0.00	0.00
Maximum lbs/day	3.64	21.55	31.35	0.00	5.28	0.70	4.58
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.25	-	-	-	-	-	-
Asphalt Off-Road Diesel	2.41	16.06	19.34	-	0.61	0.61	0.00
Asphalt On-Road Diesel	0.05	0.99	0.19	0.00	0.02	0.02	0.00
Asphalt Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00
Maximum lbs/day	2.72	17.06	19.67	0.00	0.64	0.64	0.00
Max lbs/day all phases	3.64	21.55	31.35	0.00	5.28	0.70	4.58

Phase 1 - Demolition Assumptions  
Start Month/Year for Phase 1: Nov '06  
Phase 1 Duration: 0.5 months  
Building Volume Total (cubic feet): 45054.3076  
Building Volume Daily (cubic feet): 4505.0944  
On-Road Truck Travel (VMT): 249

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions  
Start Month/Year for Phase 2: Nov '06  
Phase 2 Duration: 2.0 months  
On-Road Truck Travel (VMT): 0

Off-Road Equipment		Horsepower	Load Factor	Hours/Day
No.	Type			
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0

Phase 3 - Building Construction Assumptions  
Start Month/Year for Phase 3: Jan '07

Phase 3 Duration: 0.5 months

SubPhase Building Turned OFF

SubPhase Architectural Coatings Turned OFF  
Start Month/Year for SubPhase Asphalt: Jan '07  
SubPhase Asphalt Duration: 0.5 months

#### SubPhase Asphalt Durati-

**Acres to be Paved:  
Off-Road Equipment**

Off-Road Equipment				
No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
<b>*** 2006***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	1.89	-	1.89
Off-Road Diesel	1.73	13.82	12.30	-	0.64	0.64	0.00
On-Road Diesel	0.32	7.17	1.19	0.10	0.17	0.14	0.03
Worker Trips	0.02	0.06	0.59	0.00	0.00	0.00	0.00
Maximum lbs/day	2.07	21.05	14.08	0.10	2.70	0.78	1.92
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	1.76	-	1.76
Off-Road Diesel	3.60	21.97	30.62	-	0.81	0.81	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.04	0.07	0.74	0.00	0.00	0.00	0.00
Maximum lbs/day	3.64	22.04	31.36	0.00	2.57	0.81	1.76
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	3.64	22.04	31.36	0.10	2.73	0.81	1.92

\*\*\* 2007 \*\*\*

### Phase 1 - Demolition Emissions

## Phase 2 - Site Grading Emissions

Fugitive Dust - - - - 1.76 - 1.76  
 Off-Road Diesel 3.60 21.48 30.62 - 0.70 0.70 0.00  
 On-Road Diesel 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Worker Trips	0.04	0.07	0.73	0.00	0.00	0.00	0.00
Maximum lbs/day	3.64	21.55	31.35	0.00	2.46	0.70	1.76
<b>Phase 3 - Building Construction</b>							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.25	-	-	-	-	-	-
Asphalt Off-Road Diesel	2.41	16.06	19.34	-	0.61	0.61	0.00
Asphalt On-Road Diesel	0.05	0.99	0.19	0.00	0.02	0.02	0.00
Asphalt Worker Trips	0.01	0.01	0.14	0.00	0.00	0.00	0.00
Maximum lbs/day	2.72	17.06	19.67	0.00	0.64	0.64	0.00
Max lbs/day all phases	3.64	21.55	31.35	0.00	2.46	0.70	1.76

**Construction-Related Mitigation Measures**

Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)

Phase 2: Unpaved Roads: Water all haul roads 2x daily  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 3.0%)  
 Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)

**Phase 1 - Demolition Assumptions**

Start Month/Year for Phase 1: Nov '06

Phase 1 Duration: 0.5 months

Building Volume Total (cubic feet): 45054.3076

Building Volume Daily (cubic feet): 4505.0944

On-Road Truck Travel (VMT): 249

**Off-Road Equipment**

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

**Phase 2 - Site Grading Assumptions**

Start Month/Year for Phase 2: Nov '06

Phase 2 Duration: 2.0 months

On-Road Truck Travel (VMT): 0

**Off-Road Equipment**

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0

**Phase 3 - Building Construction Assumptions**

Start Month/Year for Phase 3: Jan '07

Phase 3 Duration: 0.5 months

SubPhase Building Turned OFF

SubPhase Architectural Coatings Turned OFF

Start Month/Year for SubPhase Asphalt: Jan '07

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 1.03

**Off-Road Equipment**

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0

## URBEMIS 2002 For Windows 7.5.0

File Name: J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\Parking Lot.urb  
 Project Name: Malibu Lagoon- Parking Lot  
 Project Location: South Coast Air Basin (Los Angeles area)  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT  
(Tons/Year)

Construction Start Month and Year: November, 2006

Construction Duration: 3

Total Land Use Area to be Developed: 1.03 acres

Maximum Acreage Disturbed Per Day: 1.03 acres

Single Family Units: 0 Multi-Family Units: 0

Retail/Office/Institutional/Industrial Square Footage: 0

## CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
<b>*** 2006***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.01	-	0.01
Off-Road Diesel	0.01	0.08	0.07	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.04	0.01	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.01	0.12	0.08	0.00	0.01	0.00	0.01
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.08	-	0.08
Off-Road Diesel	0.06	0.36	0.51	-	0.01	0.01	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Total tons/year	0.06	0.36	0.52	0.00	0.09	0.01	0.08
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total all phases tons/yr	0.07	0.48	0.60	0.00	0.10	0.01	0.09
<b>*** 2007***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.03	-	0.03
Off-Road Diesel	0.02	0.12	0.17	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.02	0.12	0.17	0.00	0.03	0.00	0.03
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.01	0.09	0.11	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.01	0.10	0.11	0.00	0.00	0.00	0.00
Total all phases tons/yr	0.03	0.22	0.28	0.00	0.03	0.00	0.03

Phase 1 - Demolition Assumptions  
Start Month/Year for Phase 1: Nov '06  
Phase 1 Duration: 0.5 months  
Building Volume Total (cubic feet): 45054.3076  
Building Volume Daily (cubic feet): 4505.0944  
On-Road Truck Travel (VMT): 249  
66% Road Equipment

Off-Road Equipment				
No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions  
Start Month/Year for Phase 2: Nov '06  
Phase 2 Duration: 2.0 months  
On-Road Truck Travel (VMT): 0

Off-Road Equipment		Horsepower	Load Factor	Hours/Day
No.	Type			
1	Excavators	180	0.580	8.0
1	Dozers	134	0.575	8.0

Phase 3 - Building Construction Assumptions

Phase 3 - Building Construction Assumptions  
Start Month/Year for Phase 3: Jan '07  
Phase 3 Duration: 0.5 months  
SubPhase Building Turned OFF  
SubPhase Architectural Coatings Turned OFF  
Start Month/Year for SubPhase Asphalt: Jan '07  
SubPhase Asphalt Duration: 0.5 months  
Acres to be Paved: 1.03

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
<b>*** 2006***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.01	-	0.01
Off-Road Diesel	0.01	0.08	0.07	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.04	0.01	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.01	0.12	0.08	0.00	0.01	0.00	0.01
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.03	-	0.03
Off-Road Diesel	0.06	0.36	0.51	-	0.01	0.01	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Total tons/year	0.06	0.36	0.52	0.00	0.04	0.01	0.03
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total all phases tons/yr	0.07	0.48	0.60	0.00	0.05	0.01	0.04

\*\*\* 2007 \*\*\*

## Phase 2 - Site Grading Emissions

Fugitive Dust - - - - 0.01 - 0.01  
 Off-Road Diesel 0.02 0.12 0.17 - 0.00 0.00 0.00  
 On-Road Diesel 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.02	0.12	0.17	0.00	0.01	0.00	0.01
<b>Phase 3 - Building Construction</b>							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.01	0.09	0.11	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.01	0.10	0.11	0.00	0.00	0.00	0.00
Total all phases tons/yr	0.03	0.22	0.28	0.00	0.01	0.00	0.01

#### Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)

Phase 2: Unpaved Roads: Water all haul roads 2x daily

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 3.0%)

Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)

Phase 1 - Demolition Assumptions

Start Month/Year for Phase 1: Nov '06

Phase 1 Duration: 0.5 months

Building Volume Total (cubic feet): 45054.3076

Building Volume Daily (cubic feet): 4505.0944

On-Road Truck Travel (VMT): 249

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Nov '06

Phase 2 Duration: 2.0 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jan '07

Phase 3 Duration: 0.5 months

SubPhase Building Turned OFF

SubPhase Architectural Coatings Turned OFF

Start Month/Year for SubPhase Asphalt: Jan '07

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 1.03

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Site Grading Fugitive Dust Option changed from Level 1 to Level 2  
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces ~ 2x daily  
has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily  
has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph  
has been changed from off to on.

URBEMIS 2002 For Windows 7.5.0

File Name: J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\The Lagoon.urb  
Project Name: Malibu Lagoon- Lagoon  
Project Location: South Coast Air Basin (Los Angeles area)  
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

*** 2007 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day, unmitigated)	8.83	57.28	74.88	0.01	41.73	1.93	39.80
TOTALS (lbs/day, mitigated)	8.83	57.28	74.88	0.01	17.24	1.93	15.31
*** 2008 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day, unmitigated)	8.82	56.04	75.13	0.01	41.62	1.82	39.80
TOTALS (lbs/day, mitigated)	8.82	56.04	75.13	0.01	17.13	1.82	15.31

URBEMIS 2002 For Windows 7.5.0

File Name: J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\The Lagoon.urb  
Project Name: Malibu Lagoon- Lagoon  
Project Location: South Coast Air Basin (Los Angeles area)  
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

*** 2007 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day, unmitigated)	8.83	57.28	74.88	0.01	41.73	1.93	39.80
TOTALS (lbs/day, mitigated)	8.83	57.28	74.88	0.01	17.24	1.93	15.31
*** 2008 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day, unmitigated)	8.82	56.04	75.13	0.01	41.62	1.82	39.80
TOTALS (lbs/day, mitigated)	8.82	56.04	75.13	0.01	17.13	1.82	15.31

## URBEMIS 2002 For Windows 7.5.0

File Name: J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\The Lagoon.urb  
 Project Name: Malibu Lagoon- Lagoon  
 Project Location: South Coast Air Basin (Los Angeles area)  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT  
(Pounds/Day - Winter)

Construction Start Month and Year: August, 2007  
 Construction Duration: 5  
 Total Land Use Area to be Developed: 29.97 acres  
 Maximum Acreage Disturbed Per Day: 29.97 acres  
 Single Family Units: 0 Multi-Family Units: 0  
 Retail/Office/Institutional/Industrial Square Footage: 0

## CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
<b>*** 2007***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	39.77	-	39.77
Off-Road Diesel	8.50	52.83	70.83	-	1.84	1.84	0.00
On-Road Diesel	0.19	4.28	0.72	0.01	0.10	0.08	0.02
Worker Trips	0.14	0.17	3.33	0.00	0.02	0.01	0.01
Maximum lbs/day	8.83	57.28	74.88	0.01	41.73	1.93	39.80
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.02	0.00	0.02
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.02	0.00	0.02
Max lbs/day all phases	8.83	57.28	74.88	0.01	41.73	1.93	39.80
<b>*** 2008***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	39.77	-	39.77
Off-Road Diesel	8.50	51.97	71.17	-	1.73	1.73	0.00
On-Road Diesel	0.18	3.90	0.67	0.01	0.10	0.08	0.02
Worker Trips	0.14	0.17	3.29	0.00	0.02	0.01	0.01
Maximum lbs/day	8.82	56.04	75.13	0.01	41.62	1.82	39.80
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	8.82	56.04	75.13	0.01	41.62	1.82	39.80

## Phase 3 - Building Construction Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions  
 Start Month/Year for Phase 2: Aug '07  
 Phase 2 Duration: 5 months  
 On-Road Truck Travel (VMT): 164  
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Graders	174	0.575	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

## CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
<b>*** 2007***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	15.28	-	15.28
Off-Road Diesel	8.50	52.83	70.83	-	1.84	1.84	0.00
On-Road Diesel	0.19	4.28	0.72	0.01	0.10	0.08	0.02
Worker Trips	0.14	0.17	3.33	0.00	0.02	0.01	0.01
Maximum lbs/day	8.83	57.28	74.88	0.01	17.24	1.93	15.31
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.02	0.00	0.02
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.02	0.00	0.02
Max lbs/day all phases	8.83	57.28	74.88	0.01	17.24	1.93	15.31
<b>*** 2008***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	15.28	-	15.28
Off-Road Diesel	8.50	51.97	71.17	-	1.73	1.73	0.00
On-Road Diesel	0.18	3.90	0.67	0.01	0.10	0.08	0.02
Worker Trips	0.14	0.17	3.29	0.00	0.02	0.01	0.01
Maximum lbs/day	8.82	56.04	75.13	0.01	17.13	1.82	15.31
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	8.82	56.04	75.13	0.01	17.13	1.82	15.31

## URBEMIS 2002 For Windows 7.5.0

File Name: J:\Projects\Malibu Lagoon Restoration Proj 2005-045\Air Quality\URBEMIS\The Lagoon.urb  
 Project Name: Malibu Lagoon- Lagoon  
 Project Location: South Coast Air Basin (Los Angeles area)  
 On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT  
(Pounds/Day - Summer)

Construction Start Month and Year: August, 2007  
 Construction Duration: 5  
 Total Land Use Area to be Developed: 29.97 acres  
 Maximum Acreage Disturbed Per Day: 29.97 acres  
 Single Family Units: 0 Multi-Family Units: 0  
 Retail/Office/Institutional/Industrial Square Footage: 0

## CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
<b>*** 2007***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	39.77	-	39.77
Off-Road Diesel	8.50	52.83	70.83	-	1.84	1.84	0.00
On-Road Diesel	0.19	4.28	0.72	0.01	0.10	0.08	0.02
Worker Trips	0.14	0.17	3.33	0.00	0.02	0.01	0.01
Maximum lbs/day	8.83	57.28	74.88	0.01	41.73	1.93	39.80
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.02	0.00	0.02
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.02	0.00	0.02
Max lbs/day all phases	8.83	57.28	74.88	0.01	41.73	1.93	39.80
<b>*** 2008***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	39.77	-	39.77
Off-Road Diesel	8.50	51.97	71.17	-	1.73	1.73	0.00
On-Road Diesel	0.18	3.90	0.67	0.01	0.10	0.08	0.02
Worker Trips	0.14	0.17	3.29	0.00	0.02	0.01	0.01
Maximum lbs/day	8.82	56.04	75.13	0.01	41.62	1.82	39.80
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	8.82	56.04	75.13	0.01	41.62	1.82	39.80

## Phase 3 - Building Construction Assumptions: Phase Turned OFF

## Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Aug '07

Phase 2 Duration: 5 months

On-Road Truck Travel (VMT): 164

## Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Graders	174	0.575	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

## CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
<b>*** 2007***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	+	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	15.28	-	15.28
Off-Road Diesel	8.50	52.83	70.83	-	1.84	1.84	0.00
On-Road Diesel	0.19	4.28	0.72	0.01	0.10	0.08	0.02
Worker Trips	0.14	0.17	3.33	0.00	0.02	0.01	0.01
Maximum lbs/day	8.83	57.28	74.88	0.01	17.24	1.93	15.31
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.02	0.00	0.02
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.02	0.00	0.02
Max lbs/day all phases	8.83	57.28	74.88	0.01	17.24	1.93	15.31
<b>*** 2008***</b>							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	15.28	-	15.28
Off-Road Diesel	8.50	51.97	71.17	-	1.73	1.73	0.00
On-Road Diesel	0.18	3.90	0.67	0.01	0.10	0.08	0.02
Worker Trips	0.14	0.17	3.29	0.00	0.02	0.01	0.01
Maximum lbs/day	8.82	56.04	75.13	0.01	17.13	1.82	15.31
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	8.82	56.04	75.13	0.01	17.13	1.82	15.31

Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily  
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)  
Phase 2: Unpaved Roads: Water all haul roads 2x daily  
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 3.0%)  
Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph  
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)  
Phase 3 - Building Construction Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions  
Start Month/Year for Phase 2: Aug '07  
Phase 2 Duration: 5 months  
On-Road Truck Travel (VMT): 164  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Graders	174	0.575	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily  
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)  
Phase 2: Unpaved Roads: Water all haul roads 2x daily  
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 3.0%)  
Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph  
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)  
Phase 3 - Building Construction Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions  
Start Month/Year for Phase 2: Aug '07  
Phase 2 Duration: 5 months  
On-Road Truck Travel (VMT): 164  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Excavators	180	0.580	8.0
2	Graders	174	0.575	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

**CHANGE IN AMBIENT NOISE LEVEL MODEL**

Project Name:	Malibu Lagoon
Date:	10/31/05
Scenario / Noise Source:	Construction of Lagoon
Receptor	Southwestern portion of Site

**Without Muffler**

Ambient Background Sound Level (dBA)	58.3
Line or Point Type	Point
Type of Propogation Path (Hard or Soft)	Hard
Reference Distance	50
Actual Receptor Distance from Source	50
Maximum Single Event Sound Level (dBA)	89
Number of Events during Period	1
Duration of Single Event (user defined units)	3.2
Total Time Period of Concern (user defined units)	8
New Ambient Sound Level at Receptor (dBA)	81
Change from Existing Sound Level (dBA)	23
Is Change Discernible (greater than or equal to 5 dBA)	YES

**CHANGE IN AMBIENT NOISE LEVEL MODEL**

Project Name:	Malibu Lagoon
Date:	10/31/05
Scenario / Noise Source:	Construction of Lagoon
Receptor	Southern part of site, near eastern end of Malibu Colony

**Without Muffler**

Ambient Background Sound Level (dBA)	58.6
Line or Point Type	Point
Type of Propogation Path (Hard or Soft)	Hard
Reference Distance	50
Actual Receptor Distance from Source	20
Maximum Single Event Sound Level (dBA)	85
Number of Events during Period	1
Duration of Single Event (user defined units)	3.2
Total Time Period of Concern (user defined units)	8
New Ambient Sound Level at Receptor (dBA)	85
Change from Existing Sound Level (dBA)	27
Is Change Discernible (greater than or equal to 5 dBA)	YES

**CHANGE IN AMBIENT NOISE LEVEL MODEL**

Project Name:	Malibu Lagoon
Date:	10/31/05
Scenario / Noise Source:	Construction of Parking Lot
Receptor	Southwestern portion of site
<b>Without Muffler</b>	
Ambient Background Sound Level (dBA)	58.3
Line or Point Type	Point
Type of Propagation Path (Hard or Soft)	Hard
Reference Distance	50
Actual Receptor Distance from Source	170
Number of Events during Period	89
Duration of Single Event (user defined units)	1
Total Time Period of Concern (user defined units)	3.2
New Ambient Sound Level at Receptor (dBA)	71
Change from Existing Sound Level (dBA)	12
Is Change Discernible (greater than or equal to 5 dBA)	YES

**CHANGE IN AMBIENT NOISE LEVEL MODEL**

Project Name:	Malibu Lagoon
Date:	10/31/05
Scenario / Noise Source:	Construction of Parking Lot
Receptor	Southern part of site, near eastern end of Malibu Colony
<b>Without Muffler</b>	
Ambient Background Sound Level (dBA)	58.6
Line or Point Type	Point
Type of Propagation Path (Hard or Soft)	Hard
Reference Distance	50
Actual Receptor Distance from Source	230
Number of Events during Period	89
Duration of Single Event (user defined units)	1
Total Time Period of Concern (user defined units)	3.2
New Ambient Sound Level at Receptor (dBA)	68
Change from Existing Sound Level (dBA)	10
Is Change Discernible (greater than or equal to 5 dBA)	YES